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(11) Publication number:

**0 396 116 A3**

12

## EUROPEAN PATENT APPLICATION

(21) Application number: 90108317.0

(51) Int. Cl.<sup>5</sup>: **G01N 33/547**, //G01N33/569,  
C12N11/06, C07K17/06

(22) Date of filing: 02.05.90

(30) Priority: 02.05.89 US 346108

(43) Date of publication of application:  
07.11.90 Bulletin 90/45

(84) Designated Contracting States:  
DE ES FR IT

(88) Date of deferred publication of the search report:  
22.01.92 Bulletin 92/04

(71) Applicant: **ABBOTT LABORATORIES**  
CHAD-0377, AP6D/2, One Abbott Park Road

**Abbott Park, Illinois 60064-3500(US)**

(72) Inventor: **Pope, Mark R.**  
33210 N. Battershall  
Wildwood, Illinois 60030(US)  
Inventor: **Knigge, Kevin M.**  
1083 Lawson Blvd.  
Gurnee, Illinois 60031(US)

(74) Representative: **Modiano, Guido et al**  
**MODIANO, JOSIF, PISANTY & STAUB**  
Modiano & Associati Via Meravigli, 16  
I-20123 Milano(IT)

(54) Covalent attachment of specific binding members to a solid phase.

(57) The present invention provides novel methods for the covalent attachment of a specific binding member to a solid phase through the reaction of a thiolated solid phase and a specific binding member that is complexed to a heterobifunctional coupling agent. The resulting immobilized specific binding

member can be used in diagnostic binding assays. The invention enables the production of immobilized specific binding members which have increased sensitivity, specificity and stability, while requiring less specific binding member be used.

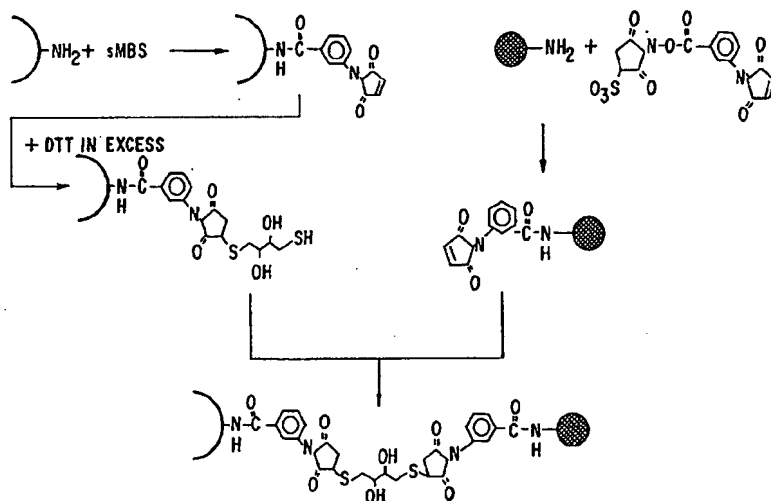


FIG. 7

EP 0 396 116 A3

CGK00001223



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## EUROPEAN SEARCH REPORT

Application Number

EP 90 10 8317

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	US-A-4529712 (Y-H. JOU ET AL.) * the whole document * ---	1-17	G01N33/547 //C12N11/06 //C07K17/06 //G01N33/569
X	US-A-4176006 (R.A. CORMIER ET AL.) * the whole document * ---	7, 8	
X	EP-A-227351 (SHIONOGI & CO. LTD.) * the whole document * ---	1, 3, 5, 6	
X	DE-A-2917001 (TOYO JOZO K.K.) * the whole document * ---	5, 6	
X	PATENT ABSTRACTS OF JAPAN vol. 5, no. 8 (C-39)(680) 20 January 1981, & JP-A-55 136261 (TOYO JOZO K.K.) 23 October 1980, * the whole document * ---	1-8	
A	Derwent Publications Ltd., London, GB. DATABASE WPIL, Accession no. 87-206289, week 8729, & WO-A-8704171 (TEIJIN K.K.) 16-07-1987 ---	9, 10	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
A	EP-A-306943 (NEORX CORPORATION) * page 5, line 55 - page 6, line 42 * * page 7, line 45 - page 10, line 35 * ---	1-4, 7, 8, 11 13-15	G01N C12N C07K
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The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 18 NOVEMBER 1991	Examiner DE KOK A. J.
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons * : member of the same patent family, corresponding document			

EPF FORM 1500 (01.87) (P0401)

CGK00001224